

10/518444  
Docket C'd PCT/PCT 20 DEC 2004

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/B/PTO</b>				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	Not Yet Assigned
Sheet	1	of	1	Filing Date	December 20, 2004
				First Named Inventor	Wataru MATSUMOTO
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Attorney Docket Number	2611-0228PUS1				

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number+Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SR	AA	US-6,715,121-B1	03-30-2004	LAURENT	

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SR	BA	JP-2001-168733-A	06-22-2001		
SR	BB	JP-6-223095-A	08-12-1994		
SR	BC	JP-6-223096-A	08-12-1994		
SR	BD	EP-0 611 054-A2	08-17-1994		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
SR	CA	R.G. GALLAGER., "Low-Density Parity-Check Codes", Cambridge, MA: MIT Press, 1963.			
SR	CB	Y. KOU et al., "Low Density Parity Check Codes Based on Finite Geometries: A Rediscovery," ISIT 2000, pp.200, Sorrento, Italy, June 25 to 30, 2000.			
SR	CC	LUDY et al., "Improved Low-Density Parity-Check Codes Using Irregular Graphs and Belief Propagation", Proceedings of 1998 IEEE International Symposium of Information Theory, pp. 171, Cambridge, Mass., August 16 to 21, 1998.			
SR	CD	RICHARDSON et al., "The capacity of low-density parity-check codes under message-passing decoding", IEEE Trans. Inform. Theory, vol. 47, No. 2, pp. 599 to 618, Feb. 2001.			
SR	CE	CHUNG et al., "Analysis of Sum-Product Decoding of Low-Density Parity-Check Codes Using a Gaussian Approximation", IEEE Trans. Inform. Theory, vol. 47, No. 2, pp. 657 to 670, Feb. 2001.			
SR	CF	J. ROSENTHAL, P.O. VONTobel, "Construction of LDPC codes using Ramanujan graphs and ideas from Margulis", in Proc. of the 38th Allerton Conference on Communication, Control, Computing, 2000, pp. 248-257.			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Samir Rizk/ (04/28/2006)	Date Considered
--------------------	---------------------------	-----------------